

## ABSTRACT

The present invention relates to method and apparatus for making golf ball cores. The method includes using an inspection system during preform formation to measure the perform. The measurements are used to determine the measured perform volume and compare it to a standard preform volume. The method also includes using mold with pairs of self-aligning half-molds. The apparatus for inspecting the preforms comprises a non-contact measuring device, such as a camera. The self-aligning half-molds each include an upper surface with an angularly offset portion. When the offset portions mate during mold closure, the half-molds move with respect to one another.

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